

DETAILED ACTION
EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Ronald D. Faggetter on December 18, 2008.

The application has been amended as follows:

This listings will replace all prior versions, and listings, of claims in the specification.

1. (currently amended) A method of presenting data from an application executing at a computing device at a wireless mobile device remote from said computing device, said method comprising:
 - receiving at said mobile device, a representation of a text file defining a user interface and actions to be taken in response to user interaction with said user interface or received data from said application;
 - receiving data from said application;
 - executing virtual machine software at said mobile device to present said user interface and said received data, in accordance with said text file;
 - wherein at least one of said actions in said text file specifies execution of a software component separate from said virtual machine software[[,] identified in said text file, said software component being in the form of an object class;
 - querying operating system software executing at said wireless mobile device as to whether said software component identified in said text file is available at said device; and

if said querying indicates that said software component is available at said wireless mobile device, executing said software component at said device comprising creating an instance of said object class.

2. (cancelled)

3. (cancelled)

4. (previously presented) The method of claim 1, further comprising querying ~~whether said software component as to whether said software component~~ includes a pre-determined interface, and wherein said executing is conditional upon determining that said software component includes said pre-determined interface.

5. (previously presented) The method of claim 1, further comprising receiving data from said software component to be used by said virtual machine software.

6. (cancelled)

7. (currently amended) The method of claim ~~[[6]] 1~~, wherein said text file identifies said object class by name ~~and said method further comprises~~ and wherein said querying comprises querying said operating system software whether an object class having said name exists at said mobile device.

8. (cancelled)

9. (previously presented) The method of claim 1, wherein said text file is received at said wireless mobile device and wherein said text file is an Extensible Markup Language (XML) file.

10. (previously presented) The method of claim 1, wherein said text file is parsed, and a representation of said text file is stored at said wireless mobile device for use by said virtual machine software.

11. (previously presented) The method of claim 1, further comprising storing data generated by said software component at said wireless mobile device in accordance with said text file.

12. (previously presented) The method of claim 1, wherein said format of network messages comprises XML definitions for said network messages, and wherein data for said application are dispatched from said wireless device using said XML definitions.

13. (previously presented)) The method of claim 1, wherein said software component ~~captures~~ facilitates the capture of a signature of a user.

14. (previously presented) The method claim 1, wherein said software component interfaces with peripheral hardware at said device.

15. (currently amended) A wireless mobile device comprising:

- a processor;
- computer readable memory in communication with said processor, storing operating system software and virtual machine software controlling operation of said wireless mobile device,

- said virtual machine software comprising:

- a parser for receiving a text file;
 - a screen generation engine, for presenting at least one screen at said wireless mobile device in accordance with said text file;

- instructions for querying said operating system software as to whether a software component, which is identified in said text file and is separate from said virtual machine software, is available at said wireless mobile device, said software component being in the form of an object class; and

- an event handler for processing events arising in response to user interaction with said at least one screen in accordance with said text file, said event handler operable to execute said software component if, upon executing said instructions, it is determined that said software component is available at said wireless mobile device

- wherein executing said software component comprises creating an instance of said object class.

16. (original) The wireless mobile device of claim 15, wherein said memory further stores a representation of said text file.

17. (previously presented) The wireless mobile device of claim 15, wherein said representation of said text file is created by said parser.

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18. (previously presented)) The wireless mobile device of claim 15, wherein said parser comprises an Extensible Markup Language (XML) parser.

19. (previously presented) The wireless mobile device of claim 15, wherein said virtual machine software further adapts said processor to parse said text file.

20. (original) The wireless mobile device of claim 19, wherein said virtual machine software further adapts said parser comprises to parse said text file as an XML file.

21. (previously presented)) The wireless mobile device of claim 15, wherein said ~~interface comprises at least one screen and said software~~ virtual machine software further comprises object classes corresponding to actions to be taken by said device in response to interaction with said at least one screen.

22. (previously presented) The wireless mobile device of claim 15, wherein said memory further stores said software component separate from said virtual machine software.

23. (cancelled)

24. (cancelled)

25. (previously presented) The wireless mobile device of claim 15, wherein said software component separate from said virtual machine software interacts with hardware at said mobile device.

26. (previously presented) The wireless mobile device of claim 15, wherein said software component separate from said virtual machine software receives parameters contained in said text file from said virtual machine software.

27. (previously presented) The wireless mobile device of claim 15, wherein said software component separate from said virtual machine software returns data to said virtual machine software.

28. (previously presented) The wireless mobile device of claim 15, wherein said software component separate from said virtual machine software returns data to said virtual machine software in XML format.

29. (previously presented) Computer readable medium storing software to be executed at a mobile device, adapting said mobile device to perform the method of claim 1.

30. (currently amended) The wireless mobile device of claim [[23]] 15, wherein said virtual machine software further comprises instructions for querying said at least one object class as to whether said at least one object class provides a pre-determined interface and instructions for

instantiating said at least one object class if said querying indicates that said at least one object class does provide said pre-determined interface.

31. (currently amended) A wireless mobile device comprising:

a processor;

computer readable memory in communication with said processor, storing operating system software and virtual machine software controlling operation of said wireless mobile device, said virtual machine software comprising:

a parser for receiving a text file defining a user interface and actions to be taken in response to user interaction with said user interface, one action of said actions specifying execution of a software component separate from said virtual machine software at said wireless mobile device, said text file identifying said software component, said software component being in the form of an object class;
instructions for querying said operating system software as to whether said software component is available at said wireless mobile device;

an instance of [[an]] said object class instantiated based upon, and corresponding to, said action;

a screen generation engine, for presenting at least one screen at said wireless mobile device in accordance with said text file; and

an event handler for processing events arising in response to user interaction with said at least one screen in accordance with said text file, said event handler operable to execute said software component by way of said instance.

Reasons for Allowance

Claims 1, 4-5, 7, 8-22, 25-31 are allowed.

The prior art of record fails to teach or fairly suggest that wherein at least one of said actions in said text file specifies execution of a software component separate from said virtual machine software identified in said text file, said software component being in the form of an object class; querying operating system software executing at said wireless mobile device as to whether said software component identified in said text file is available at said device; and if said querying indicates that said software component is available at said wireless mobile device, executing said software component at said device comprising creating an instance of said object class, together with all elements recited in the independent claims 1, 15 and 31.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DEBBIE M. LE whose telephone number is (571)272-4111. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo can be reached on (571) 272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DEBBIE M LE/
Primary Examiner, Art Unit 2168
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